

liquor, both from that I had cut, and that I had cut it from, without pressure.

Which made me think, that the motion of this Plant upon touching, might be from this, that there being a constant *intercourse* betwixt every part of this Plant and its root, either by a *circulation* of this liquor, or a constant pressing of the subtiler parts of it to every extremity of the Plant. Upon every pressure, from whatsoever it proceeds, greater then that which keeps it up, the subtile parts of this liquor are thrust downwards, towards its *articulations* of the leaves, where, not having room presently to get into the sprig, the little round *pedunculus*, from whence the *Spine* and those oblique *Fibres* I mention'd rise, being dilated, the *Spine* and *Fibres* (being continued from it) must be contracted and shortned, and so draw the leaf upwards to joyn with its fellow in the same condition with it self, where, being closed, they are held together by the implications of the little whitish hair, as well as by the still retreating liquor, which distending the *Fibres* that are continued lower to the branch and root, shorten them above; and when the liquor is so much forced from the Sprout, whose *Fibres* are yet tender, and not able to support themselves, but by that tensness which the liquor filling their *interstices* gives them, the Sprout hangs and flags.

But, perhaps, he that had the ability and leisure to give you the exact *Anatomy* of this pretty Plant, to shew you its *Fibres*, and visible *Canals*, through which this fine liquor circulateth, or is moved, and had the faculty of better and more copiously expressing his Observations and conceptions, such a one would easily from the motion of this liquor, solve all the *Phænomena*, and would not fear to affirm, that it is no obscure sensation this Plant hath. But I have said too much, I humbly submit, and am ready to stand corrected.

I have not yet made so full and satisfactory Observations as I desire on this Plant, which seems to be a Subject that will afford abundance of information.

information. But as far as I have had opportunity to examine it, I have discovered with my *Microscope* very curious structures and contrivances; but designing much more accurate examinations and trials, both with my *Microscope*, and otherwise, as soon as the season will permit, I shall not till then add any thing of what I have already taken notice of; but as far as I have yet observ'd, I judge the motion of it to proceed from causes very differing from those by which Cut-strings, or Lute-strings, the beard of a wilde Oat, or the beard of the Seeds of *Geranium*, *Moscatum*, or *Musk-grass* and other of kinds of *Cranes-bill*, move themselves. Of which I shall add more in the subsequent Observations on those bodies.

Observ. XIX. Of a Plant growing in the blighted or yellow specks of Damask-rose-leaves, Bramble-leaves, and some other kind of leaves.

I Have for several years together, in the Moneths of June, July, August, and September (when any of the green leaves of *Roses* begin to dry and grow yellow) observ'd many of them, especially the leaves of the old shrubs of *Damask-Roses*, all bespecked with yellow stains, and the undersides just against them, to have little yellow hillocks of a gummy substance, and several of them to have small black spots in the midst of those yellow ones, which, to the naked eye, appear'd no bigger then the point of a Pin, or the smallest black spot or tittle of Ink one is able to make with a very sharp pointed Pen.

Examining these with a *Microscope*, I was able plainly to distinguish, up and down the surface, several small yellow knobs, of a kind of yellowish red gummy substance, out of which I perceiv'd there sprung multitudes of little cases or black bodies like Seed-cods, and those of them that were quite without the hillock of Gumm, disclos'd themselves to grow out of it with a small Straw-colour'd and transparent stem, the which seed and stem appear'd very like those of common Moss (which I elsewhere describe) but that they were abundantly less, many hundreds of them being not able to equalize one single seed Cod of Moss.

I have often doubted whether they were the seed Cods of some little Plant, or some kind of small Buds, or the Eggs of some very small Insect, they appear'd of a dark brownish red, some almost quite black, and of a Figure much resembling the seed-cod of Moss, but their stalks on which they grew were of a very fine transparent substance, almost like the stalk of mould, but that they seem'd somewhat more yellow.

That which makes me to suppose them to be Vegetables, is for that I perceiv'd many of those hillocks bare or destitute, as if those bodies lay yet conceal'd, as G. In others of them, they were just springing out of their gummy hillocks, which all seem'd to shoot directly outwards, as at A. In others, as at B, I found them just gotten out, with very little or no stalk,
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